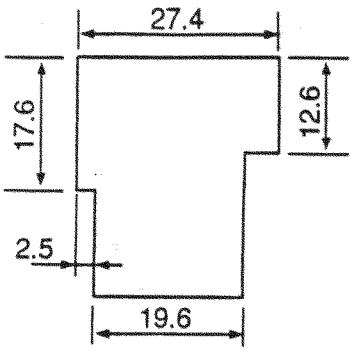
COMPONENT SPECIFICATION

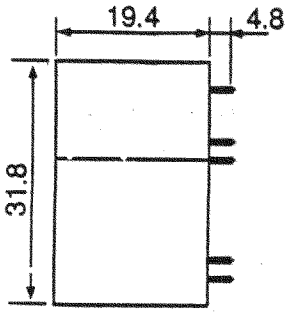
FOR L90 – 24W SERIES RELAY

1. CONTACT DATA:
   - 1-1 Arrangement: 1 from C [SPDT]
   - 1-2 Material: Ag alloy.
   - 1-3 Rating: N/O : 30 Amperes at 277 V AC , 20 Amperes at 30 V DC resistive.
     2 HP 250 V AC or 1 HP 125 V AC Motor.
     N/C : 20 Amperes at 277 V AC , 20 Amperes at 30 V DC resistive.
     1/2 HP 250 V AC or 1/4 HP 125 V AC Motor.
   - 1-4 Resistance: Initial 50 milliohms. At load 1 amperes 6 V DC.
   - 1-5 Max. Switching Power ------- 8310 VA , 500W.
   - 1-6 Max. Switching Voltage ----- 277V AC , 30 V DC.
   - 1-7 Max. Carrying Current ------- 30 A.
2. COIL DATA:
   - 2-1 Voltage__24___ V.
   - 2-2 Resistance__600__ ohms ± 10% (at 25 ℃).
   - 2-3 Power DC__0.9 W__ at nominal voltage.
   - 2-4 Attract voltage __18__ V max.
   - 2-5 Release voltage __2.4__ V min.
   - 2-6 Attract time 15 ms max.
   - 2-7 Release time 15 ms max.
3. GENERAL DATA:
   - 3-1 Insulation material: Bobbin -- P.B.T.
     Cover -- P.B.T.
   - 3-2 Insulation resistance: 100 Megohms nin. At 500 V DC.
   - 3-3 Dielectric Strength : Between Open Contact 1,500 V AC for 1 min.
     Between All Conductors 2,500 V AC for 1 min.
   - 3-4 Vibration resistance : Unerring ----- 10 to 55 Hz. double amplitude of 1.5mm.
     Destructive -- 10 to 55 Hz. double amplitude of 1.5 mm.
   - 3-5 Shock resistance : Unerring --------- 10 G. (11 ± 1 ms)
     Destructive ------ 100G. (6 ± 1 ms)
   - 3-6 Expected life: Mechanical more than 10,000,000 operation.
     Electrical more than 100,000 operation.
     At rated load.
   - 3-7 Temperature range : -55 ℃-------- +85℃.
   - 3-8 Approximate weight: 28 G .

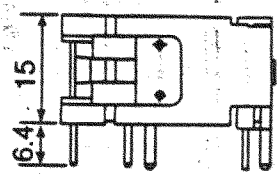
L90 DIMENSIONS (mm)

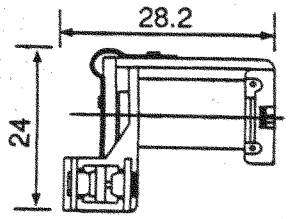
Sealed Type



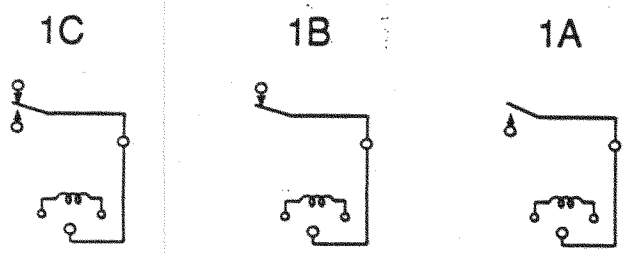


Open Type

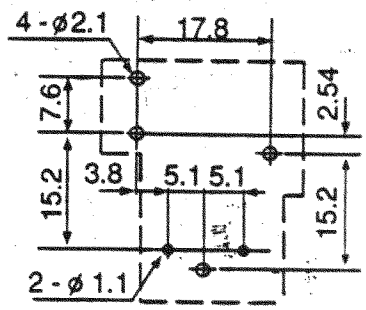




WIRING DIAGRAM



P.C.B. LAYOUT



CONTACT RATING

1PST-NO	Resistive (Cos.θ = 1)	AC 277V / 30A	DC 30V / 20A
1PST-NC	Resistive (Cos.θ = 1)	AC 277V / 30A	DC 30V / 10A
1PDT	Resistive (Cos.θ = 1)	NO: AC 277V / 30A	DC 30V / 20A
	Resistive (Cos.θ = 1)	NC: AC 277V / 30A	DC 30V / 10A

GENERAL DATE

Insulation Resistance	100 Megohms min. at 500 VDC.
Breakdown Voltage	1,500 VRMS,50/60 Hz between contact, 2,000 VRMS,50/60 Hz between all elements.
Contact Material	Silver - Cadmium Oxide as standard.
Contact Resistance	100 milliohms max. (initial)
Coil Data	See chart. (at 25℃)
Max. Allowable Voltage	110 % nominal
Min. Drop - out Voltage	10 % of nominal
Operation Time	15 msec max.
Release Time	15 msec max.
Temperature Range	-55℃ ~ + 85℃
Expected Life	With operation rate 30/min. Mechanical - 10,000,000 operations min. Electrical - 100,000 operations min. at rated load.
Weight	23 ~ 25 grams